



European Horticulture

**Doctoral double degree program
between universities:**

**Mendel University in Brno,
Faculty of Horticulture, Czech Republic
and University of Agriculture in Krakow,
Faculty of Biotechnology and Horticulture**



- MENDELU
- Faculty
- of Horticulture
-

European Horticulture



About study field

Presented Ph.D. double degree study program "European Horticulture" is based on international collaboration of two faculties operating under University of Agriculture in Krakow (Poland) and Mendel University in Brno (Lednice). Both faculties (Faculty of Horticulture in Lednice; Faculty of Biotechnology and Horticulture in Krakow) are internationally recognized on the field of horticulture and biotechnology and successfully follow current trends on both of these fields.

"European Horticulture" established an international team of guarantors and trainers which are able to stimulate contemporary and modern research. An effective Ph.D. research environment cannot work without modern laboratory equipment, which is on very high level and respect current standards (for example, high throughput DNA sequencing, Crispr-Cas applications, MS-based analytics, confocal microscopy are available for students). Students can solve problems as i) stress factors caused by abiotic and biotic factors ii) the area of modern cultivation and production technologies iii) the topic of plant breeding iv) quality of plant or technological products, in all cases interwoven by using the latest biotechnology approaches.



After graduation

Presented doctoral double degree studies are designed so that the graduate:

- be granted - after a successful defense of the final thesis and passing through the Final State Examination
 - the academic degree "Ph.D".
- acquaint with current research methods enabling future independent work on the field of horticultural research and for application sphere
- gain professional competence in working with modern instrumental infrastructure
- gained the ability to engage in international research teams
- experienced in the management of research projects based on own project solutions or by participating in research projects teams



Study structure

- International Doctoral study program between University of Agriculture, Faculty of Biotechnology and Horticulture in Kraków (Poland) and Mendel University, Faculty of Horticulture (Czech Republic).
- The double-degree structure of this program closely connects thematically related universities in different countries and thus creates an international team of supervisors and scientists.
- The duration of the doctoral double degree programme is four years and English is the primary language.
- Shared Individual Study Plan and mandatory internship for the students between cooperating universities



Courses

Mendel University, Faculty of Horticulture,
Czech Republic

World language

Research Methodology

Joint Dissertation Colloquium

Biotechnology in Horticulture

Instrumental Analysis

Stressors in Horticultural Production

Oenology

Breeding of Fruit Species

Molecular Plant Physiology

Food Chemistry and Biotechnology

Microbiology of Beverages

Environmental Chemistry

International Trade

University of Agriculture, Faculty
of Biotechnology and Horticulture in Kraków,
Poland

Biodiversity of Vegetable Crops

Herbs and Medicinal Plants

Integrated Protection of Horticulture Crops

Modern Instrumental Methods for
Determination of Quality Herbs, Vegetable
and Crop plants

Molecular Biology

Molecular Breeding

Organic Horticulture

Oxidative Stress and Antioxidants in Plants

Tissue Cultures for Crop Improvement

Urban Horticulture

Admission Requirements

Applicants to the program have to meet the following steps:

- The candidate must have finished a Master's degree program in the same or related field
- There is no distinction between candidates from EU and from non- EU, foreign applicants have the same conditions
- English language certificate from an internationally recognized organization (for example Cambridge ESOL Examinations, TOEFL, TELC)
- E- Applications for study should be submitted in electronic form **until 30th April 2020**.

E-application form: <http://is.mendelu.cz/prihlaska/?lang=en>

If necessary, please write directly to the contact person for further details.

Contact:

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<http://zf.mendelu.cz/en/>

P.S. The study of European Horticulture is free of charge for limited number of students (the date of your expression of interest plays role). Please note that for covering of your living costs there are usually available different programs/funds in your home country that support foreign university studies. Another possibility is to control the possibilities offered by Czech government (see <https://www.dzs.cz/en/> or

<https://www.studyin.cz/plan-your-studies/scholarships/>). From this point of view, the Visegrad scholarship seems to be the most perspective, but only for limited group of home countries (students only from Albania, Armenia, Azerbaijan, Belarus, Bosnia and Herzegovina, Georgia, Kosovo, Moldova, Montenegro, Northern Macedonia, Serbia and Ukraine can be supported).

